



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named

Inventor : Shanlin Hao

Appln. No. : 09/864,562

Filed : May 23, 2001

Title : HEAD PERFORMANCE BASED NANO-
MACHINING PROCESS CONTROL FOR STRIPE
FORMING OF ADVANCED SLIDERS

Docket No. : I69.12-0485

Group Art Unit: 3747

Examiner: Miller, C.S.

EXPRESS MAIL COVER SHEET

Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SENT VIA EXPRESS MAIL

Express Mail No.:

EV301105045US

Sir:

The following papers are being transmitted via **EXPRESS MAIL** to the U.S. Patent and Trademark Office on the date shown below:

1. Fee Calculation Form with attached check for \$190.00; and
2. Amendment.

Respectfully submitted,

KINNEY & LANGE, P.A.

RECEIVED
SEP 21 2004
TECHNOLOGY CENTER R3700

Date: Sept. 15, 04

By

Alana Bergman
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THE KINNEY & LANGE BUILDING
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Minneapolis, MN 55415-1002
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ATB:kmm



O I P FEE TRANSMITTAL

Total Amount of Payment \$ 190.00

METHOD OF PAYMENT (Check One)

1. ☒ The Commissioner is hereby authorized to charge any additional fee required under 37 C.F.R. 1.16 and 1.17 and credit any over payments to Deposit Account No.11-0982. Deposit Account Name: Kinney & Lange, P.A. A duplicate copy of this communication is enclosed

2. ☒ Check Enclosed

FEE CALCULATION

1. BASIC FILING FEE

| Large Entity Fee Code | Large Entity Fee (\$) | Small Entity Fee Code | Small Entity Fee (\$) | Fee Description |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------|
| 1001 | 770 | 2001 | 385 | [] Utility Filing Fee |
| 1002 | 340 | 2002 | 170 | [] Design Filing Fee |
| 1004 | 770 | 2004 | 385 | [] Reissue Filing Fee |
| 1005 | 160 | 2005 | 80 | [] Prov. Filing Fee |

Subtotal (1) \$-0-

2. EXTRA CLAIM FEES

| | Number Claims | Prior | Extra | Fee from Below | Fee Paid |
|---------------------------|------------------|-------|-----------|------------------------|--------------|
| Total | <u>21</u> | - | <u>19</u> | = <u>1</u> x <u>18</u> | = <u>18</u> |
| Indep. | <u>5</u> | - | <u>3</u> | = <u>2</u> x <u>86</u> | = <u>172</u> |
| Multiple Dependent Claims | | | <u>0</u> | = <u>0</u> | |

Insert 3 and 20, or number previously paid if greater; Reissue see below

| Large Entity Fee Code | Large Entity Fee (\$) | Small Entity Fee Code | Small Entity Fee (\$) | Description |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------------------------------------|
| 1202 | 18 | 2202 | 9 | Claims in excess of 20 |
| 1201 | 86 | 2201 | 43 | Independent claims in excess of 3 |
| 1203 | 290 | 2203 | 145 | Multiple Dependent Claim |
| 1204 | 86 | 2204 | 43 | Reissue Independent Claims Over Original Patent |
| 1205 | 18 | 2205 | 9 | Reissue claims in excess of 20 and over original patent |

Subtotal (2) \$190.00

Complete if Known

| | |
|----------------------|--------------|
| Application No. | 09/864,562 |
| Filing Date | May 23, 2001 |
| First Named Inventor | Shanlin Hao |
| Group Art Unit | 3747 |
| Examiner Name | C.S. Miller |
| Atty. Docket Number | 169.12-0485 |

FEE CALCULATION (Continued)

3. ADDITIONAL FEES

| Large Entity Fee Code | Large Entity Fee (\$) | Small Entity Fee Code | Small Entity Fee (\$) | Fee Description | Fee paid |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------------------------------------------------------|----------|
| 1051 | 130 | 2051 | 65 | Surcharge - Late filing fee or oath | - |
| 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or cover sheet | - |
| 1053 | 130 | 1053 | 130 | Non-English specification | - |
| 1812 | 2,520 | 1812 | 2,520 | For Filing a Request for Reexamination | - |
| 1251 | 110 | 2251 | 55 | Extension for reply within first month | - |
| 1252 | 420 | 2252 | 210 | Extension for reply within second month | - |
| 1253 | 950 | 2253 | 475 | Extension for reply within third month | - |
| 1254 | 1,480 | 2254 | 740 | Extension for reply within fourth month | - |
| 1255 | 2,010 | 2255 | 1,005 | Extension for reply within fifth month | - |
| 1402 | 330 | 2402 | 165 | Filing a brief in support of an appeal | - |
| 1403 | 290 | 2403 | 145 | Request for oral hearing | - |
| 1814 | 110 | 2814 | 55 | Terminal Disclaimer Fee | - |
| 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable | - |
| 1453 | 1,330 | 2453 | 665 | Petition to revive - unintentional | - |
| 1501 | 1,330 | 2501 | 665 | Utility/Reissue issue fee | - |
| 1502 | 480 | 2502 | 240 | Design issue fee | - |
| 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | - |
| 1807 | 50 | 1807 | 50 | Petitions related to provisional applications | - |
| 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Statement | - |
| 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | - |
| 1801 | 770 | 2801 | 385 | Request for Continued Examination (RCE) | - |

Other fee (specify) _____

Subtotal (3) \$-0-

Signature Alana T. Bergman

Reg. No. 47,420

Date Sept 15, 04

Deposit Account No. 11-0982

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AMENDMENTMail Stop Non-Fee Amendment
Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450**SENT VIA EXPRESS MAIL**

Express Mail No.: EV301105045US

Sir:

INTRODUCTION

This is in response to the Office Action mailed June 15, 2004. Please amend the above-identified application as follows:

AMENDMENTS TO THE CLAIMS

Please amend claims 13-14, 16-25, 27-28, and 30-31, and please add claims 32-33, such that the status of the claims is as follows:

1-12. (Canceled)

13. (Currently Amended) A material removal device for lapping a bar comprising a plurality of sliders, the material removal device comprising:

means for sensing an electrical response of a height of each magnetoresistive element
on each slider on the bar;

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01 FC:1202
02 FC:120118.00 OP
172.00 OP